

CLAIM SUMMARY DOCUMENT

The following listing of claims will replace all prior versions and listings of claims in this application.

1. (Previously Presented) A packaging material for making paper containers having an interior comprising at least a thermoplastic material outermost layer, a paper substrate layer, a barrier layer, and a thermoplastic material innermost layer in such order, the innermost layer being adapted to be located closer to the interior of the paper container than the outermost layer when the packaging material is formed into the paper container,

the thermoplastic material innermost layer containing at least a linear low density polyethylene which has a molecular weight distribution and has an average density of 0.900 g/mL - 0.915 g/mL, a peak melting point of 88°C to 103 °C, a melt flow index of 5 dg/min - 20 dg/min, a swelling ratio of 1.4-1.6, and a layer thickness of 20-50-micrometer.

2. (Previously Presented) A packaging material for paper containers according to Claim 1, wherein the thermoplastic material outermost layer contains at least a linear low density polyethylene which has a molecular weight distribution, and has an average density of 0.900 g/mL - 0.925 g/mL, a peak melting point of 88°C to 103°C, a melt flow index of 5 dg/min - 20 dg/min, a swelling ratio of 1.4-1.6, and a layer thickness of 10-15 micrometer.

3. (Previously Presented) A packaging material for paper containers according to Claim 1, including an adhesives layer between the barrier layer and the thermoplastic material innermost layer that contains at least a linear low density polyethylene which has a molecular weight distribution, and has an average density of 0.900 g/mL - 0.915 g/mL, a peak melting point of 88°C to 103°C, a melt flow index of 5 dg/min - 20 dg/min, a swelling ratio of 1.4-1.6, and a layer thickness of 2-15 micrometer.

4. (Previously Presented) A packaging material for paper containers according to Claim 1, including an adhesive thermoplastic material layer between the paper substrate layer and the barrier layer which contains at least a linear low density polyethylene which has a molecular weight distribution, and has an average density of 0.890 g/mL - 0.925 g/mL, a peak melting point of 88°C to 103°C, a melt flow index of 10 dg/min - 20 dg/min, a swelling ratio of 1.4-1.6, and a layer thickness of 10-25 micrometer.

5. (Previously Presented) A paper packaging container formed from a packaging material comprising at least a thermoplastic material outermost layer, a paper substrate layer, a barrier layer, and a thermoplastic material innermost layer in such order, the innermost layer being located closer to an interior of the packaging container than the outermost layer, the thermoplastic material innermost layer containing at least a linear low density polyethylene which has a molecular weight

distribution and has an average density of 0.900 g/mL - 0.915 g/mL, a peak melting point of 88°C to 103°C, a melt flow index of 5 dg/min - 20 dg/min, a swelling ratio of 1.4-1.6, and a layer thickness of 20-50 micrometer;

a strip tape covering a discontinuous section of the thermoplastic material innermost layer between two edges of the packaging material in a liquid tight manner, and

at least a sealing-surface layer of the strip tape containing a linear low density polyethylene which has a molecular weight distribution and has an average density of 0.900 g/mL - 0.915 g/mL, a peak melting point of 88°C to 103°C, a melt flow index of 5 dg/min - 20 dg/min, a swelling ratio of 1.4-1.6, and a layer thickness of 20-100 micrometer.

6. (Previously Presented) A paper packaging container formed from a packaging material comprising at least an outside thermoplastic material layer, a paper substrate layer, and an inside thermoplastic material layer, in such order, the inside thermoplastic material layer containing at least a linear low density polyethylene, and having an average density of 0.910 g/mL - 0.930 g/mL, a peak melting point of 115 degrees°C or more by differential scanning calorimetry, a melt flow index of 5 dg/min - 15 dg/min, and a swelling ratio of 1.45-1.55.